

THE 3RD FACULTY WORKSHOP ON ENGINEERING

March 23 (Mon) - 24 (Tue), 2015 at ES Hall, Nagoya University

Schedule

March 23 (Mon)	9:00-9:05	Opening Address: Prof. Yushu Matsushita, Dean, Graduate School of Engineering, NU	 <p><i>Prof. Chui</i></p>  <p><i>Prof. Thompson</i></p>  <p><i>Prof. Takayama</i></p>  <p><i>Prof. Kodambaka</i></p>  <p><i>Prof. Epureanu</i></p>
	9:05-9:20	Introduction of JUACEP: Prof. Yasumasa Ito, JUACEP, NU	
	9:20-9:40	Prof. Noritsugu Umehara, Mechanical Science and Engineering, NU “Development of Manufacturing and Evaluation Methods in Surface Engineering for Future Machines”	
	9:40-10:10	Prof. Chi On Chui, Electrical Engineering, UCLA “Semiconductor Electronic Label-Free Assay”	
	10:10-10:30	Prof. Motonobu Goto, Chemical Engineering, NU “Supercritical Fluid Technology for Separation and Reaction Processes”	
	10:30-10:40	Break	
	10:40-11:10	Prof. Levi Thompson, Chemical Engineering & Mechanical Engineering, UM “Energy Dense Electrolytes for Redox Flow Batteries”	
	11:10-11:30	Prof. Yoshinobu Baba, Applied Chemistry, NU “Nanobiodevices for Future Medicine”	
	11:30-12:00	Prof. Shuichi Takayama, Biomedical Engineering & Macromolecular Science and Engineering, UM “Biomedical Micro/Nanofluidics”	
	12:00-13:30	Lunch	
	13:30-13:50	Prof. Makoto Kobashi, Materials Science and Engineering, NU “Introduction to Materials Processing for Metals with Mesoscale Structures; Composite and Porous Metals”	
	13:50-14:20	Prof. Suneel Kodambaka, Materials Science and Engineering, UCLA “In Situ Microscopy Studies of Thin and Thick Crystals”	
	14:20-14:40	Prof. Yahachi Saito, Quantum Engineering, NU “Dynamic Behavior of Carbon Nanotube Carrying High Electric Current Studied by In Situ TEM”	
	14:40-15:10	Prof. Bogdan Epureanu, Mechanical Engineering, UM “Forecasting Bifurcations in Engineered and Natural Systems”	
15:20-17:20	Lab Tours 15:20-Kobashi Lab. 15:50-Baba Lab. 16:20-Goto Lab. 16:50-Umehara Lab.		

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March 24 (Tue)	9:00-9:20	Prof. Junpei Sakurai, Micro-Nano Systems Engineering, NU “Combinatorial Search for New Thin Film Metallic Materials for MEMS”	 Prof. Liang  Prof. Chiou  Prof. Kurabayashi
	9:20-9:50	Prof. Xiaogan Liang, Mechanical Engineering, UM “Nanoprinting and Plasma Processes for Processing Emerging Atomically Layered Materials into Working Devices”	
	9:50-10:10	Prof. Hisataka Maruyama, Micro-Nano Systems Engineering, NU “Mico-Nano Mechatronics for Biomedical Applications”	
	10:10-10:40	Prof. Pei-Yu Chiou, Mechanical and Aerospace Engineering & Bioengineering, UCLA “Photothermal Nanoblade for Large Cargo Delivery into Mammalian Cells”	
	10:40-10:50	Break	
	10:50-11:10	Prof. Yasuyuki Morita, Mechanical Science and Engineering, NU “Determination of Stem Cell Differentiation into Tenocyte Using Atomic Force Microscopy to Measure Cellular Elastic Moduli”	
	11:10-11:40	Prof. Katsuo Kurabayashi, Mechanical Engineering & Electrical Engineering and Computer Science, UM “Nanoplasmonic Biosensing for Immune Status Monitoring of Critically-ill Patients”	
	11:40-12:00	Closing Address: Prof. Yang Ju, Leader of JUACEP, NU	
	12:00-13:30	Lunch	
	13:30-14:30	Lab Tours 13:30-Saito Lab. 14:00-Hata-Lab. 14:30-Arai Lab.	
15:00-16:00	Meet with Nagoya Students *at ES Conference Room		

March 25 (Wed)	9:30-15:30	Toyota Plant Tour *Optional tour for visiting faculty Toyota Kaikan Museum - Assembly Shop - Welding Shop
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